(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 21 July 2005 (21.07.2005)

PCT

(10) International Publication Number WO 2005/066969 A1

- G11C 11/56, (51) International Patent Classification⁷: 11/34, H01L 45/00
- (21) International Application Number:

PCT/JP2004/016082

English

- (22) International Filing Date: 22 October 2004 (22.10.2004)
- (25) Filing Language:
- (26) Publication Language: English
- (30) Priority Data:

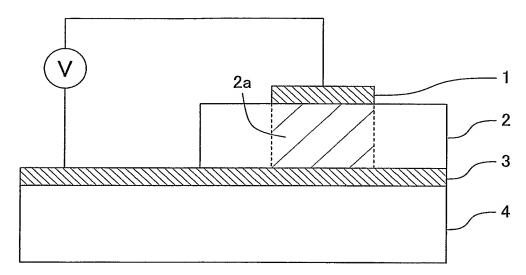
2003-435269 26 December 2003 (26.12.2003) JP 2004-131542 27 April 2004 (27.04.2004) 2004-167223 4 June 2004 (04.06.2004)

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: MEMORY DEVICE, MEMORY CIRCUIT AND SEMICONDUCTOR INTEGRATED CIRCUIT HAVING VARI-ABLE RESISTANCE



(57) Abstract: A first variable resistor (5) is connected between a first terminal (7) and a third terminal (9) and increases/reduces its resistance value in accordance with the polarity of a pulse voltage applied between the first terminal (7) and the third terminal (9). A second variable resistor (6) is connected between the third terminal (9) and a second terminal (8) and increases/reduces its resistance value in accordance with the polarity of a pulse voltage applied between the third terminal (9) and the second terminal (8). Given pulse voltages are applied between the first terminal (7) and the third terminal (9) and between the third terminal (9) and the second terminal (8) to reversibly change the resistance values of the first and second variable resistors (5, 6), thereby recording one bit or multiple bits of information.



Published:

with international search report

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